SECTION C DESCRIPTIONS AND SPECIFICATIONS

TASK ORDER (TO) PERFORMANCE WORK STATEMENT (PWS)

SPACE AND NAVAL WARFARE SYSTEM CENTER, ATLANTIC

SHORT TITLE: NEDC Sustainment and Engineering Support

1.0   PLACE(S) OF PERFORMANCE

The following sites are where the majority of labor hours will be spent; for travel (i.e., temporary duty sites), see Travel Section under TO PWS Para 10.0.
   a. SSC Atlantic locations in Charleston, SC
   b. Contractor Facilities located in Charleston, SC
   c. USMC location in Kansas City, MO

2.0   TASK ORDER PURPOSE

2.1   BACKGROUND

The SSC-Atlantic Navy Enterprise Data Center (NEDC) provides a secure multitenant data center environment for Department of Navy (DON) systems and information in support of DCAO Data Center Consolidation (DCC) and modernization initiatives. This effort consists of establishing new standards for efficiency and usage of modern industry best practices to assist the DON in accomplishing its mission objectives of consolidating server, network, and storage infrastructure resources in order to reduce its Total Cost of Ownership (TCO) while expanding its services, capabilities, and enhancing its security posture.

2.2   SCOPE

The purpose of this work is to provide network and communications planning, architectural, analysis, evaluation, design, development, engineering, transition, and sustainment support services to SPAWAR System Center Atlantic (SSC-A), Code 55100 in support of the Navy Data Center Integrated Product Team (IPT) and Data Center and Application Optimization (DCAO) Data Center Consolidation (DCC) and modernization initiatives. The contractor shall provide services such as network and communications planning, architectural, design, engineering, analysis, evaluation, testing, C&A, IA, integration, migration, documentation, logistic, administration, transition, and operational sustainment support required to accomplish the tasks specified below. This will encompass both the Classified and Unclassified Data Center (DC) environments located at the Space and Naval Warfare Systems Center (SSC) Atlantic facilities located in Charleston SC.

3.0   APPLICABLE DOCUMENTS
3.1   REFERENCES
All references listed within the basic contract are required as applicable to this TO.

3.2   SPECIFICATIONS

All specifications listed in the basic contract are applicable as required by this TO.

3.3   ACRONYMS

ASR   Automated System Recovery

C&A   Certification & Accreditation

CENT OS   Community Enterprise Operating System

DCC   Data Center Consolidation

DNS   Domain Name System

ECR   Engineering Change Request

EMC   Eagon Marino Company

FW   Firewall

HBSS   Host Based Security System

HW   Hardware

IA   Information Assurance

IAVM   Information Assurance Vulnerability Management

INFOCON   Information Operations Condition

IPS   Intrusion Prevention System

LAN   Local Area Network

MS SQL   Microsoft Structured Query Language

NEDC   Navy Enterprise Data Center

NIPRNET   Non-Secure Internet Protocol Router Network

NTP   Network Time Protocol

NWCF   Navy Working Capital Funds

OCSP   Online Certificate Status Protocol

ODAA   Office of the Designated Approving Authority

SAN   Storage Area Network

SDD   System Design Document

SFTP   Secure File Transfer Protocol

SIPRNET   Secret Internet Protocol Router Network

SLB   Server Load Balancing

SRM   Secure Remove

STIG   Security Technical Implementation Guidelines

SW   Software

UCS   Universal Connectivity System

VPN   Virtual Private Network

WSUS   Windows Server Update Services

WAN   Wide Area Network

4.0   SECURITY REQUIREMENTS

4.1   ORGANIZATION

As specified in clause 5252.204-9200 and the Contract Security Classification Specification form, DD-254, classified work shall be performed under this task order. The contractor shall have at time of award a SECRET facility security clearance (FCL).

4.2   PERSONNEL

Prior to commencement of work on this contract, all contractor personnel (including administrative and subcontractor personnel) shall have, at a minimum, a favorable Trustworthiness Determination, which is determined by a National Agency Check with Local Agency Check and Credit Check (NACLC) and favorable FBI fingerprint checks. All personnel shall possess a SECRET clearance prior to working on TO.

Labor Category	Required Minimum Security Clearance
Program / Project Manager	SECRET
Project Manager	SECRET
Engineer/Scientist 5	SECRET
Engineer/Scientist 4	SECRET
Engineer/Scientist 3	SECRET
Logistician 2	SECRET
Subject Matter Expert 5	SECRET
Subject Matter Expert 4	SECRET
Subject Matter Expert 3	SECRET
Subject Matter Expert 2	SECRET
Computer Systems Analyst 1	SECRET
Computer Systems Analyst 2	SECRET
Computer Systems Analyst 3	SECRET
General Clerk 3	SECRET

5.0   COR DESIGNATION

The Contracting Officer Representative (COR) for this task order is Joshua Chudnovsky who can be reached at phone (843) 218-3546 e-mail: Joshua.chudnovsky@navy.mil .

6.0   DESCRIPTION OF WORK

6.1   SUSTAINMENT SUPPORT (NWCF)

The contractor shall perform the following duties in support of sustainment support services:

6.1.1   The contractor shall create and maintain the updates to the NIPRNET and SIPRNET C&A package (CDRL T001) for the SSC Atlantic Data Center facility located in Charleston, SC. The packages required at the ODAA are as follows:

- · CHS NIPRNET SVCS
- · NEDC Hosting Fabric
- · NEDC Core Services Architecture
- · CHS SIPRNET SVCS
- · NEDC SIPRNET Hosting Fabric
- · NEDC SIPRNET Core Services Architecture

6.1.2   The contractor shall perform installation, configuration, testing, and troubleshooting for

LAN, SAN, WAN, and network security protocols, technologies, and solutions deployed in the SSC Atlantic NEDC infrastructure Charleston facility.

6.1.3   The contractor shall perform system software updates, administration, monitoring, maintenance, IAVM patching, STIG implementation, auditing and logging, and reporting for SSC Atlantic Charleston facility NEDC LAN, SAN, WAN, and network security equipment and software including: Cisco Nexus 7000, 5000, and 1000V series switches and 2000 series Fabric Extenders, Cisco ASA 5500-X series Data Center Firewall, McAfee Firewall Enterprise S6000 series appliance, McAfee Firewall Enterprise Virtual Appliance (FV), Cisco MDS 9100 series switches, Cisco UCS 6100 and 6200 series Fabric Interconnects, Cisco ASR 1000 series routers, Juniper M10i series routers, Citrix NetScaler 9000 series appliance, and Riverbed Steelhead CX5055 series appliances.

6.1.4   The contractor shall perform installation, configuration, testing, and troubleshooting for storage protocols, technologies, and solutions deployed in the SSC Atlantic Data Center infrastructure Charleston facility.

6.1.5   The contractor shall perform system software updates, administration, monitoring, maintenance, IAVM patching, STIG implementation, auditing and logging, and reporting for SSC Atlantic Charleston facility NEDC storage equipment and software including: EMC VNX 7500, EMC CLARiiON CX480, EMC Avamar 7.x, EMC Data Domain DD-890, EMC RecoverPoint 4.x, EMC PowerPath, NetApp FAS, VMware SRM 5.x, and VMware View.

6.1.6   The contractor shall perform installation, configuration, testing, and troubleshooting for server protocols, technologies, and solutions deployed in the SSC Atlantic Data Center infrastructure Charleston facility.

6.1.7   The contractor shall perform system software updates, administration, monitoring, maintenance, IAVM patching, STIG implementation, auditing and logging, and reporting (CDRL T008) for SSC Atlantic-Charleston facility NEDC server equipment and software including: Cisco UCS 5100 Blade Chassis with B-series Blade Servers, Dell PowerEdge M1000e Blade Chassis with M610, M620, M630 Blade Servers, HP DL360 and DL380, Oracle Sun 6000 Blade Chassis with T4 Blade Servers, Oracle Sun M5000 SPARC servers, Cisco UCSM 2.1 and 2.2, VMware vSphere 5.0, 5.1, and 5.5, Citrix XenServer, Citrix XenApp, Solaris 10 and 11, RHEL 6.x, Windows 2003 and 2008 servers as well as Oracle 10g/11g and RAC, and MS SQL Server databases.

6.1.8   The contractor shall perform installation, configuration, testing, and troubleshooting for Core Services and management system protocols, technologies, and solutions deployed in the SSC Atlantic-Charleston facility NEDC infrastructure. Core Services include: SFTP, Web Proxy, DNS, Windows Server Update Services (WSUS), YUM, Host Based Security System (HBSS), OCSP Server and software, NTP, Directory Services, SMTP Relay, SCCVI\ACAS, Syslog, SLB (Server Load Balancing), VMware vCenter 5.1 and 5.5, VMware OPs, Cisco ASDM, SolarWinds, Splunk, and Cisco UCSM 2.1 and 2.2.

6.1.9   The contractor shall perform system software updates, administration, monitoring, maintenance, IAVM patching, STIG implementation, auditing and logging, and reporting for SSC Atlantic-Charleston facility NEDC Core Services and management software including: SFTP, Web Proxy, DNS, Windows Server Update Services (WSUS), YUM, Host Based Security System (HBSS), OCSP Server and software, NTP, Directory Services, SMTP Relay,

SCCVI\ACAS, Syslog, SLB (Server Load Balancing), VMware vCenter 5.1 and 5.5, VMware OPs, Cisco ASDM, SolarWinds, Splunk, and Cisco UCSM 2.1 and 2.2.

6.1.10 The contractor shall assist with the planning and management of SSC Atlantic-Charleston facility NEDC power plant, electrical systems, and mechanical systems, infrastructure equipment and software including power management systems, A/C capacity and monitoring systems, floor plan, rack, patch panels, fire suppression systems, and structured cabling plant.

6.1.11 The contractor shall have a working knowledge of Remedy ticketing systems and be able to process, generate, monitor, and respond to trouble tickets within assigned timeframes for SSC Atlantic Charleston facility.

6.1.12 The contractor shall provide incident and problem resolution for the SSC Atlantic Charleston facility, CHS NIPRNET/SIPRNET SVCS, NEDC NIPRNET/SIPRNET Hosting Fabric, and NEDC NIPRNET/SIPRNET Core Services Architecture.

6.1.13 The contractor shall provide and maintain inventory list (CDRL T004) of all the equipment and software owned by the SSC Atlantic Charleston facility Data Center.

6.1.14 The contractor shall provide and maintain a list (CDRL T004) of all equipment and software warranties award date and expiration date for the SSC Atlantic Charleston facility Data Center. For commercial and serialized items with vendor specified warranty terms, the contractor shall submit and upload applicable warranty information (CDRL T005) to the COR and appropriate task order EDA file.

6.1.15 The contractor shall provide 7 day, 24 hours per day on-call, stand-by support for the SSC Atlantic NEDC server, network, and storage infrastructure for the DC architecture on NIPRNET and SIPRNET and all applications hosted. The contractor shall submit a Warranty and Non-Warranty Failure Status Report (CDRL T006) within 48 hours after a failure has occurred.

6.1.16 The contractor shall test the failover capability of the SSC Atlantic Charleston facility Data Center to the designated Disaster Recovery site during a schedule outage annually. The contractor shall develop a report (CDRL T007) within 10 business days after a planned disaster recovery event.

6.1.17 The contractor shall provide oversight to day to day operations for all assigned IA personnel. Contractor shall report to the NEDC manager and IPT lead as required on matters of cyber security to include INFOCON, IAVM, malicious activity, manning issues and ASI requests.

6.1.18 The contractor shall provide boundary defense sustainment to include administration (Log reviews/configuration updates/INFOCON/IA compliancy) of FW, VPN, HBSS, IPS, security screening router and axillary components deployed in support of B1 capability.   Provides input to Sustainment Lead and IA Lead on ECR.

6.1.19 The contractor shall perform routine scanning and remediation for enterprise. The contractor shall work with administrators and system owners to mitigate and develop POA&Ms. The contractor shall provide update OCRS/VRAM on compliancy and POA&M status and report finding to Sustainment Lead, IA Lead, and Command IAM.

6.1.20 The contractor shall work closely with the transition team to identify IA requirements prior to customer migration. Creates/edits/validates packages in support of NEDC accreditation efforts. Provides input to IA Lead on ECR.

6.2 ENGINEERING SUPPORT (OMN)

The contractor shall perform the following duties in support of engineering projects:

6.2.1 The contractor shall support the planning, architectural, analysis, design, engineering, testing, documentation, and integration activities necessary for developing and implementing WAN solutions and services such as unicast routing, multicast routing, traffic engineering, QoS, WAN optimization, MPLS VPNs, site-to-site VPNs, and remote access VPN for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.2 The contractor shall provide System Design Document (SDD) (CDRL T002) and diagram support for the baseline design of the Data Center at SSC Atlantic Charleston facility in support of the SIPRNET and NIPRNET Data Centers. The baseline design includes the network layer 2 and layer 3, network security, storage infrastructure, management software, virtualization software, x86 server environment, disaster recovery at remote site, disaster recovery at local site, and data backup, and non-x86 server environment.   The SDD and diagrams shall be provided in documentation and presentation form.

6.2.3 The contractor shall maintain the SDD (CDRL T003) with any design changes to the baseline design of the Data Center at SSC Atlantic Charleston facility in support of the SIPRNET and NIPRNET Data Centers. The baseline design includes the network layer 2 and layer 3, network security, storage infrastructure, management software, virtualization software, x86 server environment, disaster recovery at remote site, disaster recovery at local site, and data backup, and non-x86 server environment.

6.2.4 The contractor shall provide subject matter expertise to support the evaluation, design, testing, and integration of WAN solutions for the SSC Atlantic Charleston facility.

6.2.5 The contractor shall support the planning, architectural, analysis, design, engineering, testing, documentation, and integration activities necessary for developing and implementing Data Center LAN, SAN, network security solutions and services for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.6 The contractor shall provide subject matter expertise to support the evaluation, design, testing, and integration of Data Center LAN, SAN, and network security solutions for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.7 The contractor shall support the planning, architectural, analysis, design, engineering, testing, documentation, and integration activities necessary for developing and implementing multi-vendor block I/O and file-based storage solutions for disk storage and tape storage, disaster recovery, capacity planning, performance monitoring, performance tuning, virtualization, and management in a heterogeneous operating environment for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.8 The contractor shall provide subject matter expertise to support the evaluation, design, testing, and integration of storage solutions for the SSC Atlantic Charleston facility NEDC.

6.2.9 The contractor shall support the planning, architectural, analysis, design, engineering, testing, documentation, and integration activities necessary for developing and implementing heterogeneous server virtualization solutions multi-vendor server platforms and operating systems for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.10 The contractor shall support the Information Assurance (IA) and Certification & Accreditation (C&A) activities necessary to maintain the accreditation and security posture of

the SSC Atlantic Charleston facility NEDC server, network, and storage infrastructure.

6.2.11 The contractor shall support the IA and C&A activities associated with specified customer systems hosted in the SSC Atlantic Charleston facility NEDC operating environment.

6.2.12 The contractor shall assist in the development of technical documentation and manuals relating to the operating environment of customer systems migrating into the SSC Atlantic Charleston facility NEDC operating environment.

6.2.13 The contractor shall support the planning, architectural, design, engineering, testing, documentation, and integration activities necessary for developing and implementing management and monitoring solutions for the SSC Atlantic Charleston facility NEDC operational environment.

6.2.14 The contractor shall provide subject matter expertise to support the evaluation, design, testing, and integration of management and monitoring solutions for the SSC Atlantic Charleston facility NEDC.

6.2.15 The contractor shall provide support for briefs, spreadsheets, documentation, and diagrams as required for the documentation of system requirements, system designs, test plans, test reports, and technical briefs for engineering projects in support of the SSC Atlantic Charleston facility NEDC operating environment.

6.2.16 The contractor shall develop technology/procedures in support of HW/SW upgrades, emerging capability insertion and migration of customers into and out of the enterprise. Works closely with the transition team to identify IA requirements prior to customer migration. Performs testing in off line environment to validate operability in support of IAV directed patches and configuration updates. Provides input to IA Lead on ECR and acts as voting member in the IA lead's absence.

6.2.17 The contractor shall migrate all CENT OS servers to REDHAT.

6.2.18 The contractor shall support enterprise Disaster Recovery meetings with DCAO by attending and providing information (CDRL T007) as needed to support the enterprise architecture.

6.3   TASK ORDER ADMINISTRATION

In accordance with the basic contract PWS and the requirements of this task order PWS, the contractor shall develop and submit documentation (see CDRL under Para 12.1.1) as required for TO administration.

7.0   GOVERNMENT FURNISHED INFORMATION (GFI)   No GFI will be provided on this TO.

8.0   GOVERNMENT FURNISHED PROPERTY (GFP)

8.1   GOVERNMENT FURNISHED EQUIPMENT (GFE)   No GFE will be provided on this TO.

8.2   GOVERNMENT FURNISHED MATERIAL (GFM)   No GFM will be provided on

this TO.

9.0   CONTRACTOR ACQUIRED PROPERTY (CAP)

9.1   CONTRACTOR ACQUIRED EQUIPMENT (CAE)   No CAE is allowed on this TO.

9.2   CONTRACTOR ACQUIRED MATERIAL (CAM)   No CAM is allowed on this TO.

10.0   TRAVEL

For estimating purposes, it is anticipated that the following travel requirements noted below shall be required.

# Trips	# People	# Days/Nights	From (Location)	To (Location)
2	3	5	Charleston, SC	San Diego, CA
2	3	5	Charleston, SC	New Orleans, LA
1	3	5	Charleston, SC	Millington, TN

11.0   TRANSPORTATION OF EQUIPMENT/MATERIAL

No transportation of equipment/material is required on this TO.

12.0   DELIVERABLES

12.1   CONTRACT DATA REQUIREMENTS LIST (CDRL)

12.1.1 Administrative CDRL

As required under TO PWS Para 6.3, the following table lists all required administrative data deliverables, Contract Data Requirements Lists (CDRLs), applicable to this task:

CDRL #	Deliverable Title	TO PWS Reference Para	Frequency	Date Due
A002	Task Order Status Report	6.3	MTHLY	30 Days after task order (DATO) and monthly on the 10th
A003	Cyber Security Workforce (CSWF) Report	6.3	MTHLY	30 DATO and monthly on the 10th
A004	Contractor's Manpower Report	6.3	QRTLY	15 Jan, 15 Apr, 15 Jul, & 15 Oct
A005	Task Order Closeout Report	6.3	1TIME	NLT 30 days after completion date
A008	Cost and Milestones Schedule Plan	6.3	One time with revisions (ONE/R)	NLT 10 DATO
A009	Contractor CPARS Draft Approval Document (CDAD) Report	6.3	MTHLY	30 DATO and on the 10th

CDRL #	Deliverable Title	TO PWS Reference Para	Frequency	Date Due
A016	Invoice Support Documentation	6.3	ASREQ	Within 24 hrs from request
A017	Limitation Notification & Rationale	6.3	ASREQ	Within 24 hrs from occurrence

12.1.2 Technical CDRL

The following table lists all required technical data deliverables, Contract Data Requirements Lists (CDRLs), applicable to this task:

CDRL #	Deliverable Title	TO PWS Reference Para	Frequency	Date Due
T001	Maintain C&A Packages	6.1.1	QRTLY	quarterly on the 15 Jan, 15 Apr, 15 and defined by ODAA
T002	Develop and maintain the System Design Document for the Data Center.	6.2.2	QRTLY	180 Days after task order (DATO) and quarterly on the 15 Jan, 15 Apr, 15 Jul, & 15 Oct
T003	Sustainment System Design Documentation and Diagrams - AS-IS Server, Network, Storage, and Network Security Infrastructure	6.2.3	QRTLY	quarterly on the 15 Jan, 15 Apr, 15 Jul, & 15 Oct
T004	Inventory Tracking Report	6.1.13, 6.1.14	QRTLY	90 Days after task order (DATO) and quarterly on the 15 Jan, 15 Apr, 15 Jul, & 15 Oct
T005	Warranty Tracking and Administration	6.1.14	QRTLY	120 Days after task order (DATO) and quarterly on the 15 Jan, 15 Apr, 15 Jul, & 15 Oct
T006	Failure Status Repair Report	6.1.15	ASREQ	Within 48 hrs from next business day occurrence
T007	Disaster Recovery Report	6.1.16, 6.2.18	ANNLY	Within 10 business days post planned disaster recovery event
T008	IA compliance and associated metrics based on released IAVA's, CTO's and ATO POAM requirements.	6.1.7	ASREQ	Within defined requirements of released IAVAs, CTOs and ATO POAM requirements
A018	Contract Funds Status Report (CFSR)	15.1	MTHLY	10th of Each Month

13.0   SUBCONTRACTING REQUIREMENTS

Subcontracting requirements are in accordance with the basic contract. Note: If a prime contractor plans to utilize subcontractor(s) on this Task Order, the prime must specify in their proposal the intent to utilize subcontractors and list all applicable subcontractor names. Per clause 52.244-2, if a subcontractor is proposed by a prime and is not approved on the basic contract, formal justification is required and subject to government approval.

14.0   ACCEPTANCE PLAN

Inspection and acceptance is performed by the COR on all services, data, and non-data deliverables in accordance with the Quality Assurance Surveillance Plan (QASP), Attachment 1.

15.0   OTHER CONDITIONS/REQUIREMENTS

15.1   EARNED VALUE MANAGEMENT

This TO does not require Earned Value Management (EVM) implementation due to the majority of efforts on this TO is non-scheduled based (i.e., level of effort) and does not lend itself to meaningful EVM information. In lieu of EVM, the contractor shall develop and maintain, a Contract Funds Status Report (CDRL A018) to help track cost expenditures against performance.

15.2   OVERTIME HOURS

Overtime for Service Contract Act (SCA) labor categories is allowed on this Task Order in accordance with the identified labor categories and estimated labor hours specified in the pricing model. Prior to overtime hours being worked, the contractor shall obtain COR concurrence for the specific hours per labor category and applicable dates. The contractor shall not exceed the estimated overtime total cost associated with the allowable hours as identified at time of TO award.

15.3   GOVERNMENT FACILITIES

Government facilities (i.e., office space, computer hardware/software, or lab space) will be provided to those labor categories (see pricing model estimated hours) that would otherwise adversely affect the work performance if contractor personnel were not available on-site. All Contractor personnel with supplied government facilities shall be located at SSC Atlantic in Charleston, SC and USMC location at Kansas City, MO. Work under this order will be performed during normal working hours when practical.

16.0   LIST OF ATTACHMENTS

Attachment 1 – Quality Assurance Surveillance Plan (QASP)

Attachment 2 – CDRL Forms DD-1423 for T001 through T008